100

FIG. 1

Generating Key-Based
Parity Word
102

↓

Searching Storage Array
for Comparand Match
104

↓

105

Comparand
Match
?

— NO → Issuing Input Error
Indication
106

↓ YES

Accessing Predetermined
Protection Word
108

↓

Generating Key-Based
Protection Word
110

↓

Comparing Predetermined
And Key-Based
Protection Words
112

↓

113

Match?

— YES → Providing Address
116

↓ NO

Issuing Output Error Indication
114

FIG. 2

200

Content Addressable Memory Module
204

Storage Array
214

218

Key-Based
Parity Word

220

Address

222

Error
Notification

Parity Word
Generator
206

Memory
210

228

Predetermined
Protection
Word

Protection Word
Generator
208

Key-Based
Protection
Word

226

Comparator
212

216

Key

230

Output Error
Indication

224

Connection Manager
202

Input Error
Indication